## CLAIMS

- A dermal papilla cell growth promoter containing a compound having an activity of inhibiting the function of WNT-5A.
- 2. The dermal papilla cell growth promoter according to claim 1 wherein the compound inhibiting the function of WNT-5A is a WNT-5A production inhibitor.
  - 3. A compound represented by the following formula (I):

wherein  $R^1$  and  $R^2$  are the same or different and each represents a hydrogen atom, a  $C_{1-6}$  alkyl group or a  $C_{2-6}$  alkanoyl group;

X represents a hydrogen atom or a halogen atom;

R<sup>3a</sup> and R<sup>3b</sup> are the same or different and each represents a hydrogen atom or a hydroxyl group; and

 $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ ,  $R^8$  and  $R^9$  are the same or different and each represents a hydrogen atom, a hydroxyl group, a halogen atom or a  $C_{2-6}$  alkanoyloxy group, or adjacent groups thereof are taken together to form a  $\pi$  bond or an ether bond, or  $R^5$  and  $R^8$  or  $R^5$  and  $R^9$  are taken together to form an ether bond.

4. A dermal papilla cell growth promoter containing a compound represented by the following formula (II):

wherein  $R^1$  and  $R^2$  are the same or different and each represents a hydrogen atom, a  $C_{1-6}$  alkyl group or a  $C_{2-6}$  alkanoyl group; X represents a hydrogen atom or a halogen atom;

 $R^{3c}$  and  $R^{3d}$  are the same or different and each represents a hydrogen atom, a hydroxyl group or a  $C_{1-6}$  alkoxy group, or  $R^{3c}$  and  $R^{3d}$  are taken together to form an oxo group, a hydroxyimino group or a  $C_{1-6}$  alkoxyimino group; and

 $R^4$ ,  $R^5$ ,  $R^6$ ,  $R^7$ ,  $R^8$  and  $R^9$  are the same or different and each represents a hydrogen atom, a hydroxyl group, a halogen atom or a  $C_{2-6}$  alkanoyloxy group, or adjacent groups thereof are taken together to form a  $\pi$  bond or an ether bond, or  $R^5$  and  $R^8$  or  $R^5$  and  $R^9$  are taken together to form an ether bond.

5. A dermal papilla cell growth promoter containing a compound represented by the following formula (IX):

$$R^{2a}O$$
 $R^{5a}$ 
 $R^{9a}$ 
 $R^{8a}$ 
 $R^{7a}$ 
 $R^{3e}$ 
 $R^{3e}$ 
 $R^{4a}$ 
 $R^{6a}$ 
 $R^{6b}$ 

wherein  $R^{1a}$  and  $R^{2a}$  are the same or different and each represents a hydrogen atom, a  $C_{1-6}$  alkyl group, a  $C_{2-6}$  alkanoyl group,

a group represented by  $(CH_2)_pCO-Y-R^{10}$ , wherein Y represents an oxygen atom or a sulfur atom;  $R^{10}$  represents a hydrogen atom, a  $C_{1-6}$  alkyl group or a substituted or unsubstituted aryl group; and p is 0 or 1,

a group represented by (CH<sub>2</sub>)<sub>q</sub>R<sup>11</sup>, wherein R<sup>11</sup> represents a substituted or unsubstituted cycloalkyl group or a substituted or unsubstituted C<sub>2-10</sub> heterocycle; and q is 0 or 1, or

a group represented by COR<sup>12</sup>, wherein R<sup>12</sup> represents a substituted or unsubstituted aryl group or a substituted or unsubstituted C<sub>2-10</sub> heterocycle;

X represents a hydrogen atom or a halogen atom;

 $R^{3c}$  and  $R^{3f}$  are the same or different and each represents a hydrogen atom, a hydroxyl group, a  $C_{1-6}$  alkoxy group or a  $C_{1-6}$  alkanoyloxy group, or  $R^{3c}$  and  $R^{3f}$  are taken together to form an oxo group, a hydroxylmino group or a  $C_{1-6}$  alkoxylmino group; and

R<sup>4a</sup>, R<sup>5a</sup>, R<sup>6a</sup>, R<sup>7a</sup>, R<sup>8a</sup> and R<sup>9a</sup> are the same or different and each represents a hydrogen atom, a hydroxyl group, a halogen atom or

a group represented by Z-R<sup>13</sup>, wherein Z represents an oxygen atom or a sulfur atom; and R<sup>13</sup> represents a C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkanoyl group or a substituted or unsubstituted aryl group, or

adjacent groups thereof are taken together to form a  $\pi$  bond or an ether bond, or

R<sup>5a</sup> and R<sup>8a</sup> or R<sup>5a</sup> and R<sup>9a</sup> are taken together to form an ether bond; and R<sup>6b</sup> represents a hydrogen atom, or is taken together with R<sup>3e</sup> and R<sup>3f</sup> to form an ether bond.

6. A hair growth stimulant or a hair growth tonic which comprises the dermal papilla cell growth promoter according to any one of claims 1, 2, 4 and 5 as an active ingredient.

- 7. A method of stimulating hair growth or promoting hair growth, which comprises administering a pharmaceutically effective amount of a compound having an activity of inhibiting the function of WNT-5A to human.
- 8. Use of a compound having an activity of inhibiting the function of WNT-5A in producing a hair growth stimulant or a hair growth tonic.
- 9. A method of screening a dermal papilla cell growth promoter, which comprises selecting a compound inhibiting the function of WNT-5A.

Same.

- 10. The method according to claim 9, which comprises the following steps
  (a) to (c):
- (a) a step of culturing human WNT-5A-expressing cells in a medium to which a compound has been added;
- (b) a step of lysing the human WNT-5A-expressing cells cultured in the step (a) to extract RNA, and determining the WNT-5A mRNA amount; and
- (c) a step of comparing the WNT-5A mRNA amount determined in the step (b).